MMW technology boost for Herley from Xtrans

Herley Industries Inc has reached an exclusive licensing agreement for unique millimeter wave technology for military applications from Xytrans, the Lockheed Martin Missiles and Fire Control spinout launched in March 2001.

Xytrans has leveraged this technology to improve significantly the manufacturability and cost of millimeter wave products for both commercial and military applications.

Xytrans' current product line includes transceivers and outdoor units for terrestrial cellular infrastructure in the 10 - 38GHz bands, two-way ground terminal transceivers and solid- state power amplifiers operating at Ka-band (30GHz) for next generation broadband satellite systems, and broadband radiometric receivers in the 90GHz band for concealed- weapons detection.

The license includes exclusive access to an extensive portfolio of patented innovations and trade secrets that improve the performance of millimeter wave subsystems, and dramatically improve the manufacturing and cost of these devices.

As part of the deal, Ed Weatherwax, Xytrans' VP of Business Development, who has recently been responsible for Xytrans' military programs and pursuits, will join Herley as a VP of Business Development.

His role will be to oversee the technology and program transition, serve as an interface between the Herley and Xytrans design teams, and expand Herley's millimeter wave business.

This technology is expected to impact Herley's core businesses in landing systems, telemetry systems, transponders, simulators and sensors, and open up new opportunities in millimeter wave radar, missile seekers, and communication systems.

Sirenza InGaP HBT amplifiers

Sirenza Microdevices' latest additions to a new family of high performance broadband amplifiers for wireless & CATV infrastructure applications are InGaP HBT Darlington amplifiers; which are biased at a fixed +5V supply and provide improved temperature stability.

The SBB-4089 and SBB-5089 are the newest additions. These feature an output IP3 of +35dBm at 1950MHz with a bandwidth of .05 - 6.0 GHz. The SBB-4089 has 15.5dB of gain and 19dBm P1dB, while the SBB-5089 has 20dB gain and 20dBm P1dB, while consuming only 80mA of supply current.

Both amplifiers use Sirenza's patented thermal distribution system to lower junction temperatures and increase reliability. This amplifier family also features Class 1C (1000V HBM ESD) and MSL-1 package rating.

John Pelose, VP and GM for Sirenza's amplifier division says, "These Darlington amplifiers are the first to market featuring self-bias operation in a SOT-89 package and continue our tradition of leading-edge products while maintaining rugged, robust and reliable operation as demanded by our customers."

The SBB-4089 and SBB-5089 are available for immediate shipment in both lead and green, RoHS compliant, lead-free packages.

http://www.sirenza.com/